Atomic Absorption Spectrophotometer LX701AAS

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Description

Atomic Absorption Spectrophotometer LX701AAS is fully automatic single flame atomization system device. Designed for air-acetylene flame method analysis and flame emission method analysis. It has modular electronic circuits design with easy operation and maintenance. Equipped with reliable gas-liquid separator and fuel gas filter device provide the robustness even in high humid and harsh environment.

Specifications

Wavelength range	190-900nm
Wavelength accuracy	Better than ±0.20nm
Baseline stability	0.006A/30min
Light source system	**Lamp turret**: Motorized 8-lamp turret (Two high performance HCLs can be mounted on the turret to increase the sensitivity in flame analysis) **Lamp current adjustment**: 0~15mA
Optical system	**Monochomator**: Single beam, Czerny-Turner design grating monochromator **Grating**: 1800 lines/mm **Blazed wavelength**: 250nm **Focal length**: 277mm **Spectral bandwidth**: 0.1nm, 0.2nm, 0.4nm, 0.8nm,1.6nm, auto-switch over

Flame atomizer	**Burner**	10cm single slot all-titanium burner
	Spray chamber	Corrosion resistant all-plastic spray chamber
	Nebulizer	High efficiency glass nebulizer with metal sleeve, sucking up rate:6-7ml/min
Detection and Data processing system	**Detector**	R928 Photomultiplier with high sensitivity and wide spectral range.
	Software	Under windows operating system
	Analytical method	Working curve auto-fitting; standard addition method; automatic sensitivity correction, automatic calculation of concentration and content
	Repeat times	1-99 times, automatic calculation of mean value, standard deviation and relative standard deviation
	Multi-task functions	Sequential measurement for multi-element determination to the same sample
	Condition reading	With model function
	Result printing	Measurement data and final analytical report printout, editing with Excel
Function expansion	Hydride vapor generator can be connected for hydride analysis	
Packing dimension (L x W x H) and Gross weight	1280 x 750 x 830 mm, 150 kgs	

Features

- Equipped with high performance PMT as the detector

- Provided with automatic 8-lamp turret, automatic adjustment of lamp current and optimization of light beam position
- To perform flame emission analysis, flame emission burner head can be installed for alkali metals
- Parameters like Wavelength scanning, peak picking, change in spectral bandwidth, optimization of position parameters, automatic ignition and gas flow setting are done automatically
- Data processing system: provided with analytical methods – Working curve auto-fitting standard addition method, automatic sensitivity correction, automatic calculation of concentration and content with windows operating system software
- Experiments can be repeated 1~99 times along with automatic calculation of mean value, standard deviation and relative standard deviation
- Equipped with multi task functions- sequential determination of multi-elements in the same sample, condition reading- with model function and result printing- measured data and final analytical report printout in excel
- Provided with standard RS-232 serial port connection
- In order to increase the sensitivity in flame analysis, two high performance HCLs can be mounted on the lamp turret
- The optical system consisting of outer light path, C-T type grating monochromatic, and back light path, which is in the upper right of the instrument, is controlled by the computer
- Real-time monitoring of flame status, air pressure, etc. Automatically shutting off the gas circuit and alarm in abnormal status
- Equipped with alarm and automatic protection to fuel gas leakage, abnormal flow, insufficient air pressure and abnormal flame extinction in flame system

Applications

- Used for testing the metal element concentration analyze in agriculture, chemical, environmental study, food, mining, and petrochemical, pharmaceutical industry.

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